**Tasks (04-12-2018)**

1. z-index with opacity(different opacities give rise to different z-indexes).

2. show element over overflow)(scroll). - If overflow is hidden to show child element is possible but not when overflow is set to scroll or auto.

3. types of input boxes. (date, datetime-local, hidden, month, number, password, search, tel, text, url) - Pending

4. UI elements

Navigation - (Search Field, Breadcrumb, Pagination, Tag, Slider, Icon, Image Carousel)

Information - (Notifications, Progress Bar, Tool Tip, Message Box, Modal Window)

Alerts, Badge, Breadcrumb, Card, Carousel, Collapse, Dropdown, Input Group, Jumbotron, List Group, Navs, Navbar, Pagination, Popover, Accordian, Card, .

5. Types of bttons

Primary, Secondary, Success, Danger, Warning, Info, Light, Dark, Link.

btn-outline for all the above. Large, small, Block Level(full width button), Active (pressed state), disabled state button, toggle state button(changes state on click)

6. Catching labels (for to be used for catching the element label is for & form for form id for identifying which form the label belongs to)

7. Any JS to CSS work.(smooth-scroll, stick element to top on scroll only using css, )

8. Pseudo classes (nth child etc.) (separated from class name by a colon(:), e.g.nth-child pseudo class)

https://www.w3schools.com/css/css\_pseudo\_classes.asp

9. Accordian.

10. Collapse.

11. Half Side Sticky header.

**Tasks (05-12-2018)**

1. Auto Inherited and to be inherited properties.

Auto Inherited

azimuth

border-collapse

border-spacing

caption-side

color

cursor

direction

elevation

empty-cells

font-family

font-size

font-style

font-variant

font-weight

font

letter-spacing

line-height

list-style-image

list-style-position

list-style-type

list-style

orphans (not supported in AS, FF, IE)

pitch-range

pitch

quotes

richness

speak-header

speak-numeral

speak-punctuation

speak

speech-rate

stress

text-align

text-indent

text-transform

visibility

voice-family

volume

white-space

widows (not supported in AS, FF, IE)

word-spacing

All others are to be inherited

2. 2 line overflow of text (Light in the box) - Pending

**Tasks(06-12-2018)**

1. All dimension units and their differences (px,em etc.) & best practices to use.

Absolute Lengths

in, cm, mm, px, pt, pc

1in=96px=2.54cm=72pt=6pc

(1pc=12pt)

Exception:

px is relative to the viewing device

low-dpi devices - 1px is one device pixel (dot) of screen

Printers, High Res Devices - 1px is multiple pixels of device

Relative Lengths

em, rem, vh, vw, ex, ch, vmin, vmax, %

em = relative to current font-size(e.g. which was inherited) - 2em is twice the font-size

ex = relative to x-height of current font

ch = relative to width of character ‘0’

rem = relative to font size of root element

vw = relative to 1% of the width of the viewport

vh = relative to height of viewport

vmin = relative to 1% of viewport’s smaller dimension

vmax = relative to 1% of viewport’s larger dimension

% = relative to the parent element

2. Unknown attributes. - Draggable attributes etc.

href = used to specify link of an anchor tag or link tag etc.

src = used to specify source of the file (usually image or script(js))

alt = used with image to appear if image is not available also useful for seo and screen readers

size = height and width attributes used usually with image

style = used to give inline style

lang = used to declare language of the document (useful of screen readers and SEO)

title = used with tags like p, a, img etc. Usually used to display tooltip on hover of the element

id = can be used with all tags to identify them uniquely

class = can be used with all tags to provide custom styling

type = used to mention type of tag (e.g input type=”select”)

colspan = specifies number of columns cell should span (used with table cells like td, th)

draggable = used to specify whether the element is draggable or not(global).

dropzone = Specifies whether the dragged data is copied, moved, or linked, when dropped

enctype = encryption type for post method when it sends the data

for = Specifies which form element(s) a label/calculation is bound to

form = Specifies the name of the form the element belongs to

hidden = Specifies that an element is not yet, or is no longer, relevant

width, height = top specify height and width of an element (e.g.image, iframe etc.)

All others

https://www.w3schools.com/tags/ref\_attributes.asp

3. Data attribute.

Used to store custom private data on html elements (use data- as prefix)(Global)

4. Heading tags(Multiple tags in terms of semantics).

Google doesn’t care about any order or number of h tags used in a document, but SEO research experts suggest use of only 1 h1 tag and 3-4 h2 tags on a page and we can use as many h3 tags and so on.

5. normalize.css

Normalize.css makes browsers render all elements more consistently and in line with modern standards. It precisely targets only the styles that need normalizing.

* Preserve useful browser defaults rather than erasing them.
* Normalize styles for a wide range of HTML elements.
* Correct bugs and common browser inconsistencies.
* Improve usability with subtle improvements.
* Explain the code using comments and detailed documentation.

Useful:

<https://www.w3schools.com/cssref/css_selectors.asp>

<https://www.w3schools.com/cssref/css_default_values.asp>

**Tasks(07-12-2018)**

1. Absolute

Positioned relative according to its parent element (which is not static).

2. left-top % relative to what

%age of postioning of element (top, bottom etc.) is calculated in terms of height of the parent node, if height is not provided then height is processed as auto.

3. margin %age relative

%age margin of an element is calculated by = %age x width of parent

4. padding %age relative

%age padding of an element is calculated by = %age x width of parent

5. \* css

CSS selector to select all elements.

6. table parts styling

|  |  |
| --- | --- |
| table | display: table; border-collapse: separate; border-spacing: 2px; border-color: gray; |

|  |  |
| --- | --- |
| tbody | display: table-row-group; vertical-align: middle; border-color: inherit; |
| td | display: table-cell; vertical-align: inherit; |

|  |  |
| --- | --- |
| tfoot | display: table-footer-group; vertical-align: middle; border-color: inherit; |
| th | display: table-cell; vertical-align: inherit; font-weight: bold; text-align: center; |
| thead | display: table-header-group; vertical-align: middle; border-color: inherit; |
| tr | display: table-row; vertical-align: inherit; border-color: inherit; |

**Tasks(08-12-2018)**

2 line ellipsis research

**Tasks(09-12-2018)**

2 line ellipsis research – DONE

ref: https://www.w3.org/TR/CSS21/selector.html%23id-selectors

**Tasks(10-12-2018)**

2 line ellipsis implementation – DONE

new html tags

<abbr> used for abbrevations

<address> contact information of author/owner of a document or article

<bdi>(bi directional isolation) – used to isolate text with unknown direction

<bdo>(bi directional override) – used to override current text direction.

<blockquote> - used to separate a section quoted from another source with cite attribute containing the source link.

<cite> - used to define title of a work (e.g. name of a book etc. in a paragraph).

<code> - defines a piece of computer code.

<del>(strikethrough), <ins>(underlined) - define deleted and inserted texts in a phrase.

<dfn> - used to define instance of a term in a statement (text after dfn tag usually defines the term in dfn tag in other words it surrounds the word being defined.

<em> - used to display emphasized text (shown italic).

<i> - works same way as em in view but it defines text in a alternate mood or voice. It is usually used to display a technical term.

<kbd> - defines a keyboard input.

<meter> - defines scalar measurement within a known range, or a fractional value. Also known as a guage.

<progress> - represents progress of a task.

<pre> - displayed in a fixed width and preserves spaces and line brakes.

<q> - defines a short quotation (browser wraps it with quotes automatically).

<rp> - what to show if browser doesn’t support ruby annotations.

<ruby> - attached to main text to indicate pronunciation or meaning of the corresponding characters that need explaination/pronuncation. Used with rt & rp tags.

<rt> - gives information regarding ruby annotation.

<s> - text that’s no longer correct (displayed with a strikethrough).

<samp> - sample output of a computer program.

<strong> - Defines important text.

<sup> - Defines superscripted text.

<sub> - Defines superscripted text.

<template> - content hidden from the client by default content inside it won’t be renedered. Can be later shown by JS.

<time> - defines human readable date/time (can be used to encode date/time in machine readable way for different purposes like birthday reminders etc.).

<u> - used to define stylistically different text (by default underline).

<wbr> - specifies possible break in a string i.e. breaks string at a position where this tag is mentioned when window is resized.

ref: <https://www.w3schools.com/tags/ref_byfunc.asp>

html media tags

<audio> -

e.g. <autdio controls>

<srouce src=”path to file” type=”audio/mp3”>

Your Browser doesn’t support audio tag

</audio>

Used to get audio controls to play audio file on browser.

<video> - specifies a video or a clip or other video streams. Supported fromats mp4, WebM & ogg.

<embed> defines a container for an external application or interactive content (e.g. a plug-in).

<track> - this tag specifies text tracks for media elements e.g. subtitles, captions etc.

<source> - used to define source of any media element like video, audio, picture etc.

e.g. <picture>

<source media="(min-width: 650px)" srcset="img\_pink\_flowers.jpg">

<source media="(min-width: 465px)" srcset="img\_white\_flower.jpg">

<img src="img\_orange\_flowers.jpg" alt="Flowers" style="width:auto;">

</picture>

svg implementations and tags

<canvas> - used to draw graphics, on the go (Usually using JavaScript). It’s a container for graphics(graphics we need to draw).

<svg> - draw vector graphics.

image types svg, png, jpg & base64

svg – scalable, doesn’t blur on resizing colours can be changed.

jpg – able to display millions of colors, suitable for images, supports 60% compression without loosing much quality (animation and transparency not possible).

png – supports 1 bit transparency

base64 – encoded urls of image to reduce http request to reduce load on server (stored in db)

aspect ratios

ratio of width to height of an image

image usage best practices to maintain aspect ratios

either width or height value should be given to maintain perfect aspect ratio of the image.

usage of anchor and buttons

anchor - usually used for links to navigate to part of page or section

button – JavaScript used to create interaction on the page.

extra:

image map

<map> - image with clickable areas

e.g. ref: <https://www.w3schools.com/html/tryit.asp?filename=tryhtml_images_map2>

<picture> - container for multiple image resources.

**Tasks (11-12-2018):**

2 line ellipses more research

Image cropper tool JS

Input type range

Start of JavaScript study

**Tasks (12-12-2018):**

JavaScript study

**Tasks (13-12-2018):**

JavaScript Study + Image Cropper tool Task start

**Tasks (14-12-2018):**

JavaScript Study + Image Cropper tool Task

**Tasks (15-12-2018):**

Image Cropper Tool - Weekend

**Tasks (16-12-2018):**

Image Cropper Tool - Weekend

**Tasks (17-12-2018):**

Image Cropper Tool

**Tasks (18-12-2018):**

Image Cropper Tool - More features added

**Tasks (19-12-2018):**

Image Cropper Tool - More features added

**Tasks (20-12-2018):**

Image Cropper Tool - More features added

**Tasks (21-12-2018):**

Image Cropper Tool - More features added

**Tasks (21-12-2018):**

Image Cropper Tool – Improve UI, Add Different gallery page from which some images can be selected to edit.

**Tasks (22-12-2018):**

Image Cropper Tool – Added Gallery page with new UI.

**Tasks (23-12-2018):**

Image Cropper Tool – Multi select images to edit, Changed whole UI of tool and Navigation Links added.

**Tasks (24-12-2018):**

Image Cropper Tool – Final version submitted, pushed final changes into repo.

**For Holidays (25-12-2018 – 02-01-2018)**

<http://javascript.info/> part 1 complete

<https://codeburst.io/es6-tutorial-for-beginners-5f3c4e7960be> types of loops and differences

<https://github.com/facebook/create-react-app> small react apps

tasks related to these – to be assigned on Monday